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◈ Stefan Pleisch, André Schiper
   September 2004 **Computing Surveys (CSUR)** , Volume 36 Issue 3
   Publisher: ACM ◈ Request Permissions
   Full text available: 📄 Pdf (946.94 KB)   Additional Information: full citation, abstra

   Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 344, Downl

   Over the past years, mobile agent technology has attracted considerabl·
   literature has been published. To further develop mobile agent technolo
   tolerance and transaction support ...

   Keywords: ACID, Byzantine failures, agreement problem, asynchronou
   tolerance, malicious places, mobile agents, replication, security, transac

2 Adaptive commitment for distributed real-time transactions
◈ Nandit Soparkar, Eliezer Levy, Henry F. Korth, Avi Silberschatz
   November 1994 **CIKM '94:** Proceedings of the third international conferenc
                  management
   Publisher: ACM ◈ Request Permissions
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   Distributed real-time transaction systems are useful for both real-time a
   applications. Standard transaction management approaches that use th
   its high costs and blocking behavior which ...

3 Revisiting commit processing in distributed database systems
◈ Ramesh Gupta, Jayant Haritsa, Krithi Ramamritham
   June 1997   **SIGMOD '97:** Proceedings of the 1997 ACM SIGMOD internat
   Publisher: ACM ◈ Request Permissions
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   A significant body of literature is available on distributed transaction cor
   the relative merits of these protocols have not been studied with respec
   transaction processing ...

Also published in:
   June 1997 **SIGMOD Record** Volume 26 Issue 2

4 Analysis of transaction management performance
D. Duchamp
November 1989 **SOSP '89:** Proceedings of the twelfth ACM symposium on (
Publisher: ACM ⬧ Request Permissions
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Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Downloa

There is currently much interest in incorporating transactions into both
programming languages. This paper provides a detailed examination of
transaction manager of the Camelot system. ...

Also published in:
   November 1989 **SIGOPS Operating Systems Review** Volume 23 Issue 5

5 Simplifying distributed database systems design by using a broadca:
Jo-Mei Chang
June 1984   **SIGMOD '84:** Proceedings of the 1984 ACM SIGMOD internat
Publisher: ACM ⬧ Request Permissions
Full text available: Pdf (1.36 MB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Downloa

Atomic broadcast and failure detection are powerful primitives for distri
distributed database system LAMBDA, they are provided as network pri
atomic broadcast and failure detection simplify ...

Also published in:
   June 1984 **SIGMOD Record** Volume 14 Issue 2

6 Partition detection and optimistic commit for dynamically reconfigura
David Wong
January 1988 **SIGSMALL '88:** Proceedings of the 1988 ACM SIGSMALL/PC
Publisher: ACM ⬧ Request Permissions
Full text available: Pdf (1.14 MB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 25, Downloa

This paper addresses the problem of providing reliability in face of netw
reconfigurable distributed database system with an underlying hierarchi
problems of partition detection ...

7 Supporting nested transactional memory in logTM
Michelle J. Moravan, Jayaram Bobba, Kevin E. Moore, Luke Yen, Mark D. H
Wood
November 2006 **ASPLOS-XII:** Proceedings of the 12th international confer
                    programming languages and operating systems
Publisher: ACM ⬧ Request Permissions
Full text available: Pdf (239.03 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 105, Downl

Nested transactional memory (TM) facilitates software composition by l₍
either knowing whether the other uses transactions. **Closed nested tr**ₐ
transaction until the toplevel ...

Keywords: logTM, nesting, transactional memory

Also published in:
　October 2006　**SIGOPS Operating Systems Review**　　Volume 40 Issue 5
　October 2006　**SIGARCH Computer Architecture News** Volume 34 Issue 5
　November 2006 **SIGPLAN Notices**　　　　　　　　　　Volume 41 Issue 11

8 Transactions with isolation and cooperation
Yannis Smaragdakis, Anthony Kay, Reimer Behrends, Michal Young
October 2007　**OOPSLA '07:** Proceedings of the 22nd annual ACM SIGPLAN
　　　　　　　　programming systems and applications
Publisher: ACM　Request Permissions
Full text available: Pdf (252.95 KB)　　　　　　Additional Information: full citation, abstrₐ

Bibliometrics: Downloads (6 Weeks): 12,　Downloads (12 Months): 152,　Downl

We present the TIC (Transactions with Isolation and Cooperation) mod₍
to standard transactional memory the ability for a transaction to observ
points. This allows transactions ...

Keywords: TIC, nested transactions, open-nesting, punctuation, transₐ

Also published in:
　October 2007 **SIGPLAN Notices** Volume 42 Issue 10

9 Split hardware transactions: true nesting of transactions using best-₍
Yossi Lev, Jan-Willem Maessen
February 2008　**PPoPP '08:** Proceedings of the 13th ACM SIGPLAN Symposi
　　　　　　　　programming
Publisher: ACM　Request Permissions
Full text available: Pdf (384.30 KB)　　　　　　Additional Information: full citation, abstrₐ

Bibliometrics: Downloads (6 Weeks): 2,　Downloads (12 Months): 83,　Downloa

Transactional Memory (TM) is on its way to becoming the programming
concurrent, and scalable programs. Hardware TM (HTM) implementatior
than pure software TM (STM); however, ...

Keywords: atomicity, nesting, transactional memory

10 Maximum benefit from a minimal HTM
Owen S. Hofmann, Christopher J. Rossbach, Emmett Witchel
February 2009　**ASPLOS '09:** Proceeding of the 14th international conferenc
　　　　　　　　programming languages and operating systems
Publisher: ACM　Request Permissions

Full text available: Pdf (457.43 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 167,   Downl

A minimal, bounded hardware transactional memory implementation si(
performance when used in an operating system kernel. We add HTM to
grained synchronization structure. The ...

Keywords: hardware transactional memory

Also published in:
    February 2009 **SIGPLAN Notices** Volume 44 Issue 3

11 Deadlock detection in distributed database systems: a new algorithm
analysis
Natalija Krivokapić, Alfons Kemper, Ehud Gudes
October 1999 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.
    Full text available: Pdf (289.96 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 134,   Downl

This paper attempts a comprehensive study of deadlock detection in dis
predominant deadlock models in these systems and the four different di
are discussed. Afterwards, a ...

Keywords: Comparative performance analysis, Deadlock detection, Dis
study

12 Lazy database replication with snapshot isolation
Khuzaima Daudjee, Kenneth Salem
September 2006 **VLDB '06:** Proceedings of the 32nd international conferen(
Publisher: VLDB Endowment
    Full text available: Pdf (567.69 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 130,   Downl

Snapshot isolation is a popular transactional isolation level in database :
based on snapshot isolation have recently been proposed. These propos
local concurrency controls ...

13 A new approach to developing and implementing eager database re|
Bettina Kemme, Gustavo Alonso
September 2000 **Transactions on Database Systems (TODS)** , Volume 25
Publisher: ACM Request Permissions
    Full text available: Pdf (449.43 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 32,   Downloads (12 Months): 235,   Downl

Database replication is traditionally seen as a way to increase the availa
databases. Although a large number of protocols providing data consist(
proposed, few of these ideas have ...

Keywords: database replication, fault-tolerance, group communication
replica control, total error multicast

14 Maintaining consistency in a failure-prone P2P database network du
Md Mehedi Masud, Iluju Kiringa
March 2008   **DaMaP '08:** Proceedings of the 2008 international workshop (
systems
Publisher: ACM
Full text available: Pdf (751.39 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 66,   Downloa

A peer database network consists of peers in which each peer has its ov
(LDBS). In a peer database network, the integration of sources is perfo
peer shares its local database information ...

15 Virtualizing Transactional Memory
Ravi Rajwar, Maurice Herlihy, Konrad Lai
June 2005   **ISCA '05:** Proceedings of the 32nd annual international symp
Publisher: ACM
Full text available: Pdf (199.77 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 119,   Downl

Writing concurrent programs is difficult because of the complexity of en
Conventional lock-based synchronization suffers from wellknown limitat
non-blocking transactions as an alternative. ...

Also published in:
   May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

16 McRT-Malloc: a scalable transactional memory allocator
Richard L. Hudson, Bratin Saha, Ali-Reza Adl-Tabatabai, Benjamin C. Hertz
June 2006   **ISMM '06:** Proceedings of the 5th international symposium on
Publisher: ACM Request Permissions
Full text available: Pdf (332.45 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 153,   Downl

Emerging multi-core processors promise to provide an exponentially inc
every generation. Applications will need to be highly concurrent to fullyι
enable maximum concurrency, libraries ...

Keywords: memory management, runtimes, synchronization, transacti

17 Dependence-aware transactional memory for increased concurrency
Hany E. Ramadan, Christopher J. Rossbach, Emmett Witchel
November 2008 **MICRO '08:** Proceedings of the 2008 41st IEEE/ACM Intern
Publisher: IEEE Computer Society
Full text available: Pdf (529.01 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 72,   Downloa

Transactional memory (TM) is a promising paradigm for helping prograr
core platforms. Though they perform well under low contention, hardwa
performing well under high contention, ...

18 Priority assignment in real-time active databases
Rajendran M. Sivasankaran, John A. Stankovic, Don Towsley, Bhaskar Purl
January 1996 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (634.63 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 37,   Downloa

Active databases and real-time databases have been important areas of
recognized that many benefits can be gained by integrating real-time ar
However, not much work has been done ...

Keywords: Active databases - Coupling mode - Deadlines - ECA - Prior

19 Tolerating byzantine faults in transaction processing systems using c
Ben Vandiver, Hari Balakrishnan, Barbara Liskov, Sam Madden
October 2007 **SOSP '07:** Proceedings of twenty-first ACM SIGOPS symposii
Publisher: ACM Request Permissions
Full text available: Pdf (390.75 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 139,   Downl

This paper describes the design, implementation, and evaluation of arep
faults in transaction processing database systems. The scheme compare
multiple replicas which are unmodified, ...

Keywords: byzantine fault tolerance, databases, state machine replica

Also published in:
  October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

20 Performance modeling of nested transactions in database systems
Hossam S. Hassanein, Mohamed E. El-Sharkawi
November 2000 **CASCON '00:** Proceedings of the 2000 conference of the C
                    Collaborative research
Publisher: IBM Press
Full text available: Pdf (148.66 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 49,   Downlo

The nested transaction model was introduced to satisfy the requiremenl
Moreover, it is currently the basic transaction model for new databases
and objectrelational databases. ...

Keywords: nested transactions, performance evaluation, simulation, tv